Appl. No. 10/706,151
Amdt. dated January 10, 2008
Reply to Office Action of October 10, 2007

PATENT

Amendments to the Claims:

Please cancel without prejudice or disclaimer claims 35, 36, and 40-43. This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. - 31.　　　(Canceled)

32. (Currently Amended)　　A computer-implemented method of searching for best matches in a table storing information for dynamic call routing, the method comprising:

generating a first tree comprising first tree data, wherein the first tree data stores information from rows of the table including the information for dynamic call routing;

dynamically modifying the ~~first tree data~~ information for dynamic call routing in the table;

updating the first tree data ~~to~~ based on the dynamically modified ~~first tree data~~ information for dynamic call routing;

traversing the first tree according to a first value for a first field of the table; and

generating a second tree comprising second tree data wherein generating the second tree comprises saving in the second tree the information that is encountered when traversing the first tree ~~in the second tree~~.

33.　　(Canceled)

34. (Currently Amended)　　The method of claim 32, further comprising traversing the second tree according to a second value for a second field of the table to determine a best match for the first and second values.

35. (Canceled)

36. (Canceled)

37. (Canceled)

38. (Currently Amended)   The method of claim 32, wherein the ~~first~~ second tree data comprises an IP address and route.

39. (Previously Presented)   The method of claim 38, wherein the IP address is a Voice Over IP address.

40. (Canceled)

41. (Canceled)

42. (Canceled)

43. (Canceled)

Please add the following new claims:

44. (New)   The method of claim 39, wherein the information for dynamic call routing in the table comprises an origin phone number, a destination phone number, the IP address, and the route.

45. (New)   The method of claim 44, wherein updating the information for dynamic call routing in the table comprises updating the IP address and the route.

46. (New)   The method of claim 45, wherein the IP address comprises an IP address of a mobile device.

47. (New)   A system comprising:

a processor; and

a memory coupled with the processor and having stored therein computer code for causing the processor to search for best matches in a table storing information for dynamic call routing by:

generating a first tree comprising first tree data, wherein the first tree data stores information from rows of the table including the information for dynamic call routing;

dynamically modifying the information for dynamic call routing in the table;

updating the first tree data based on the dynamically modified information for dynamic call routing;

traversing the first tree according to a first value for a first field of the table; and

generating a second tree comprising second tree data wherein generating the second tree comprises saving in the second tree the information that is encountered when traversing the first tree.

48. (New)   The system of claim 47, wherein searching further comprises traversing the second tree according to a second value for a second field of the table to determine a best match for the first and second values.

49. (New)   The system of claim 48, wherein the information for dynamic call routing in the table comprises an origin phone number, a destination phone number, the IP address, and the route.

50. (New)   The system of claim 49, wherein the second tree data comprises the IP address and the route.

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51. (New)   The system of claim 49, wherein the IP address is a Voice Over IP address.

52. (New)   The system of claim 51, wherein updating the information for dynamic call routing in the table comprises updating the IP address and the route.

53. (New)   A computer-readable medium having stored thereon code for searching for best matches in a table storing information for dynamic call routing by:

generating a first tree comprising first tree data, wherein the first tree data stores information from rows of the table including the information for dynamic call routing;

dynamically modifying the information for dynamic call routing in the table;

updating the first tree data based on the dynamically modified information for dynamic call routing;

traversing the first tree according to a first value for a first field of the table; and

generating a second tree comprising second tree data wherein generating the second tree comprises saving in the second tree the information that is encountered when traversing the first tree.

54. (New)   The computer-readable medium of claim 53, wherein searching further comprises traversing the second tree according to a second value for a second field of the table to determine a best match for the first and second values.

55. (New)   The computer-readable medium of claim 54, wherein the information for dynamic call routing in the table comprises an origin phone number, a destination phone number, the IP address, and the route.

56. (New)   The computer-readable medium of claim 55, wherein the second tree data comprises the IP address and the route.

57. (New)   The computer-readable medium of claim 55, wherein the IP
address is a Voice Over IP address.

58. (New)   The computer-readable medium of claim 57, wherein updating the
information for dynamic call routing in the table comprises updating the IP address and the route.